Notes 3/4/19

Version Control (VCS) – (Git)

* Example) In Gitbash type:
* > mkdir lab133
* > touch README.md
* > curl -O <http://www.something.com/>...
  + Get data.csv
* REAMME.md
  + # Title

Text of the file, etc

What is Git?

* Not the same as Github (web hosting platform/site)
* It is a software that takes care of version controlling the files in a given directory
* Git Commands
  + > Git init
    - Initializes the local repository, a directory in your pwd
  + > ls -a
    - will show all the files in a directory, even the invisible ones
  + Then you need to introduce yourself to Git (Only one time)
    - > git config --global user.name “Your Name”
    - > git config –global user.email “Your Email”
      * Use Berkeley.edu email
* Basic Git Workflow
  + Most common command:
    - > git status
      * Reports untracked files
      * Reports tracked files
  + Tell Git to keep track of everything happening in my files:
    - > git add README.md
      * Tracks the changes occurring inside the file
      * Then you should check to make sure its tracked with > git status
    - > git commit -m “message”
      * Commit your changes
      * Every time you do this, include -m which stands for “message,” includes a reminder or message about what happened
      * Example message format:
        + > git commit -m “readme: added file” 🡪 saves the message in quotes
      * Git generates a unique ID “hash commit”
        + Identifies what happened with that particular action
      * Should then check this also with git status
  + > git log
    - Will allow you to inspect the history of your directory
    - Lists all the commits that have been made so far
    - Can use -n to limit the number of displayed commits
      * Ex: > git log -n 5
        + Limits it to the last five commits
    - Can also use:
      * --oneline 🡪 display one line w/ abbreviated information about commits
      * --author = “john doe” 🡪 to display the author’s commits
      * --since = “2019-01-01” 🡪 to display commits since this date
      * --grep = “readme” 🡪 all the commits with a message about “readme”
* One Warning:
  + Do not initialize a repository inside something that is already a repository